

ABSTRACT

The invention relates to a randomly
5 branched polyamide comprising at least units derived
from:
1. AB monomers,
2. at least one compound I, being a carboxylic acid (A_v)
having a functionality $v \geq 2$ or an amine (B_w) having
10 a functionality $w \geq 2$,
3. at least one compound II, being a carboxylic acid
(A_v) having a functionality $v \geq 3$ or an amine (B_w)
having a functionality $w \geq 3$, compound II being a
15 carboxylic acid if compound I is an amine or
compound II being an amine if compound I is a
carboxylic acid and the amounts of all units derived
from carboxylic acids and amines in the polyamide
satisfying conditions as mentioned in claim 1.

The composition of the randomly branched
20 polyamide is such that it cannot form a crosslinked
polyamide (and thus no gels, either), in particular
during the prepolymerization, the polymerization, the
post-condensation, the processing and the storage of
the randomly branched polyamide, and this at a variety
25 of ambient factors, for instance at elevated
temperature and pressure. The polyamide is eminently
suitable for the production of fibre and film, in
particular for flat film.